



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Hilda E. Smith

Serial No.: 10/632,117

Filed: July 31, 2003

For: ENVIRONMENTALLY
REGULATED GENES OF
STREPTOCOCCUS SUIS

Confirmation No.: 5350

Examiner: J. Hines

Group Art Unit: 1645

Attorney Docket No.: 2183-6055US

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Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record. Copies of any cited foreign patents, publications, or pending unpublished U.S. applications are enclosed pursuant to 37 C.F.R. § 1.98(a)(2).

03/28/2007 HVUDNG61 00000022 10632117

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Foreign Patent Documents

Document No.

Publication Date

Patentee

WO 98/19689 A

05-14-1998

SmithKline Beecham Corporation

Other Documents

COURTNEY et al., Cloning, Sequencing, and Expression of a Fibronectin/Fibrinogen-Binding Protein from Group A Streptococci, *Infection and Immunity*, Sept. 1994, pp. 3937-46, Vol. 62, No. 9.

DATABASE EMBL [Online] *Streptococcus pneumoniae* adherence and virulence protein A (pavA) gene, complete cds, 4 November 1999, XP002332859, retrieved from EBI accession no. EM_PRO:AF181976, Database accession no. AF181976.

HOLMES et al., The pavA gene of *Streptococcus pneumoniae* encodes a fibronectin-binding protein that is essential for virulence, *Molecular Microbiology*, 2001, pp. 1395-1408, Vol. 41, No. 6.

DATABASE EMBL [Online], *S.gordonii* partial aldB gene, cshA gene & fbpA gene, XP002332860 retrieved from EBI accession no. EM_PRO:SGSCHAG, Database accession no. X65164.

CHRISTIE et al., Expression of fibronectin-binding protein FbpA modulates adhesion in *Streptococcus gordonii*, *Microbiology*, 2002, pp. 1615-25, Vol. 148.

DE GREEFF et al., Contribution of Fibronectin-Binding Protein to Pathogenesis of *Streptococcus suis* Serotype 2, *Infection and Immunity*, Mar. 2002, pp. 1319-25, Vol. 70, No. 3. European Search Report, EP 02 71 1531 dated June 22, 2005.

ELLIS, R.W. (Chapter 29 of "VACCINES" Plotkin, S.A. et al. (eds) published by W. B. Saunders company (Philadelphia) in 1988, especially P. 571.

HERBERT et al eds, *The Dictionary of Immunology*, Academic Press, 1995.

GOTTSCHALK et al., *Journal of Clinical Microbiology*, December 1999, pp. 4242, Vol. 37, No. 12.

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STAATS et al., Veterinary Research Communications, 1997, pp. 381-407, Vol. 21.

BRAZEAU et al., Microbiology, 1996, pp. 119-21, Vol. 8.

This Supplemental Information Disclosure Statement is filed after the mailing date of the first Office Action on the merits.

The fee pursuant to 37 C.F.R. § 1.17(p) is enclosed.

Respectfully submitted,



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Date: March 27, 2007

DJM/bv

Enclosures: Form PTO/SB/08
Cited Non-U.S. Patent Documents
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| Application Number | 10/632,117 |
| Filing Date | July 31, 2003 |
| First Named Inventor | Hilda E. Smith |
| Group Art Unit | 1645 |
| Examiner Name | J. Hines |
| Attorney Docket Number | 2183-6055US |

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

| | | | |
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| Examiner Signature | /Jana Hines/ (10/01/2007) | Date Considered | 10/01/2007 |
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| First Named Inventor | Hilda E. Smith |
| Group Art Unit | 1645 |
| Examiner Name | J. Hines |
| Attorney Docket Number | 2183.60551JS |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|---------------------|-----------------------|---|----------------|
| /JH/ | | COURTNEY et al., Cloning, Sequencing, and Expression of a Fibronectin/Fibrinogen-Binding Protein from Group A Streptococci, Infection and Immunity, Sept. 1994, pp. 3937-46, Vol. 62, No. 9. | |
| | | DATABASE EMBL [Online] Streptococcus pneumoniae adherence and virulence protein A (pavA) gene, complete cds, 4 November 1999, XP002332859, retrieved from EBI accession no. EM_PRO_AF181976, Database accession no. AF181976. | |
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| | | ELLIS, R.W. (Chapter 29 of "VACCINES" Plotkin, S.A. et al. (eds) published by W. B. Saunders company (philadelphia) in 1988, especially P. 571. | |
| | | HERBERT et al eds, The Dictionary of Immunology, Academic Press, 1995. | |
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| | | REAMS et al., J. Vet. Diagn. Invest., 1996, pp. 119-21, Vol. 8. | |
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